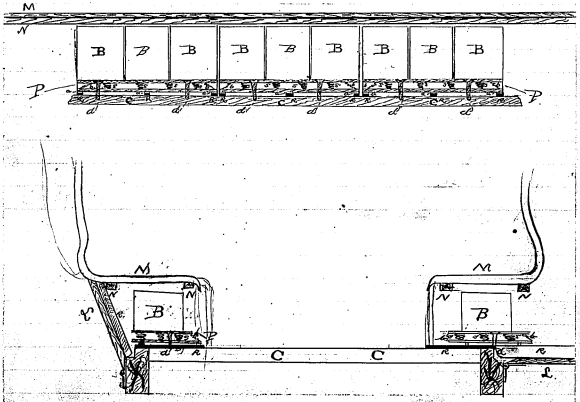
UNBOUND NOTES AND DRAWINGS
1887

3

CLARENCE M. ELLINGER,
MALT BROKER,
ROOM 143, KEMBLE BUILDING.

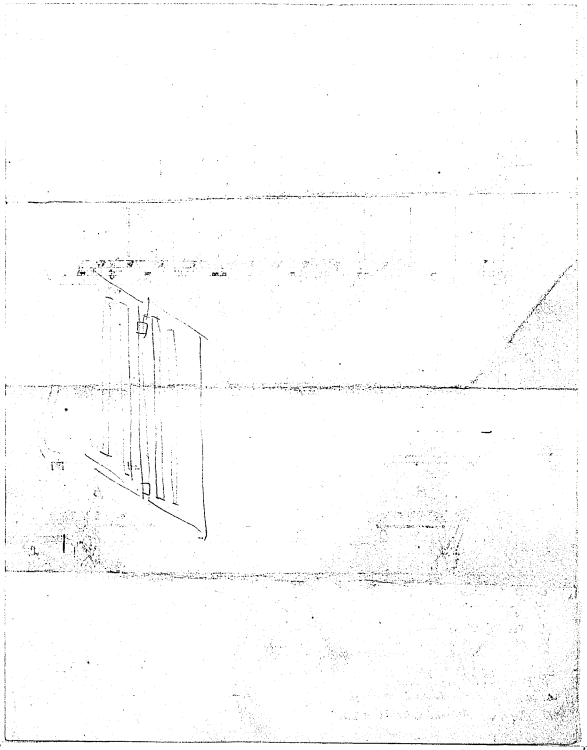
MALTING CAPACITY, 300,000 BUSHELS.
Eastern Agency,
G. J. HANSEN & Co.
MILWAUKEE, WIS.

New York, 188



C. C. Bottom of Car.
M. M Sides.
N. N Beam Supports.
S. S Car Panel.
R. R. Rails.
a. a Rollers on bottom of Platform.
s. s Springs.
P. P Platforms.
b. b. Controlling devices.
B. B. B. B. Boxes cont. Batteries.

J. D. Ellinger
Feb 1/87



THOMAS A. EDISON,
PRESIDENT.
CHAS. BATCHELOR,
VICE-PRES'T. AND GEN'L MGR.

SAMUEL INSULL,
SECRETARY AND TREASURER.
JOHN KRUESI,
ASSISTANT GEN'L MGR.

THE EDISON MACHINE WORKS,

CABLE ADDRESS:
"EDISUN NEW YORK."

Schenectady, N. Y., ...

Thermometer test on Armature

Coss thermometer 1 on Band = #1
1 on Wire #2

	Time	5	10	15	20	minutes
#1		73	81	81	80	
		65	78	78.5	78.	

Again

#1	65.5	75.	76	75	
	58.5	67	67.75	67	

Bulbs covered with waste

March 30 1887

133 M. Owen Ontario

Lamps

THOMAS A. EDISON, PRESIDENT.
CHAS. BATCHELOR, VICE-PRES. AND GEN'L MGR.

SAMUEL INSULL, SECRETARY AND TREASURER.
JOHN KRUESI, ASSISTANT GEN'L MGR.

THE EDISON MACHINE WORKS,

CABLE ADDRESS:
"EDISUN NEW YORK."

Schenectady, N. Y., Mch 30th 1887

Characteristic of a #6.

~~20% overload~~

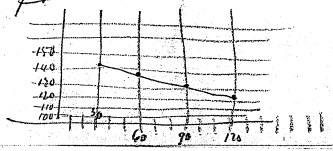
Test ~~hrs~~ 4 hrs 20% overload 125 V 144 a. 1500 spee

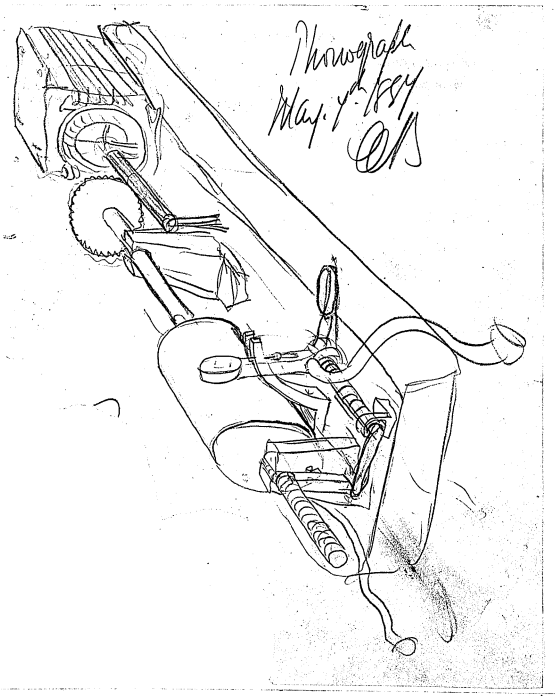
	Temp.	89.5	89	89.5	84
	Min.	5	10	15	20

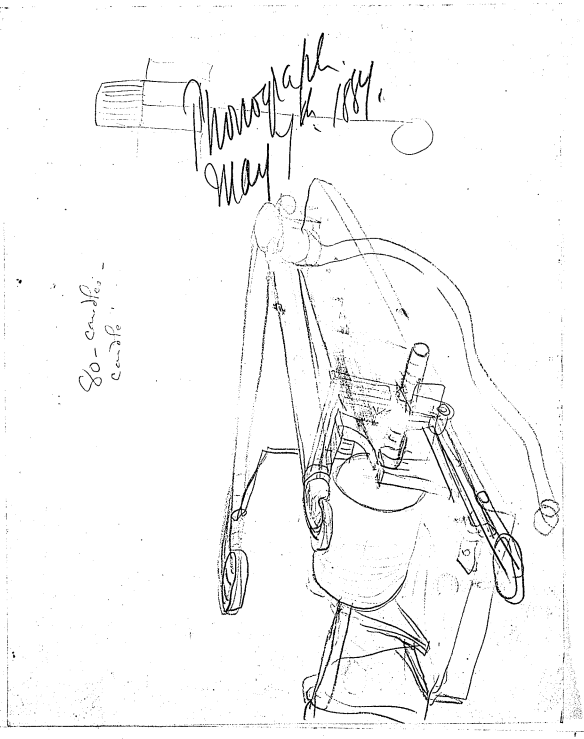
Insulation 8000 meg.

a.	120 — 125	Mean curve shows	125
	90 — 131		131.5
	60 — 137		137
	30 — 141		141
	0 — 143.5		143.5
	30 — 140.5		141
	60 — 134.5 ?		137
	90 — 132.5		131.5
	120 — 125.		125.

Mch 30/87




Thomograph
May 1st 1859

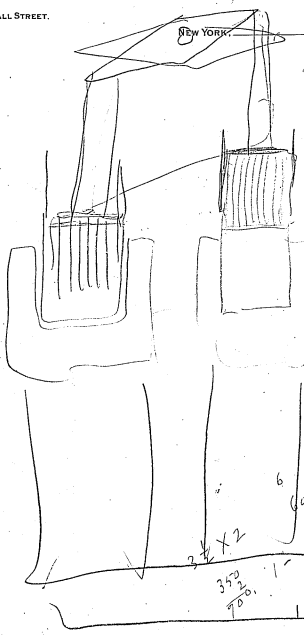

Photograph
May 1st 1894.
80-candle-
candle.

CABLE ADDRESS "EDISON, NEW YORK"

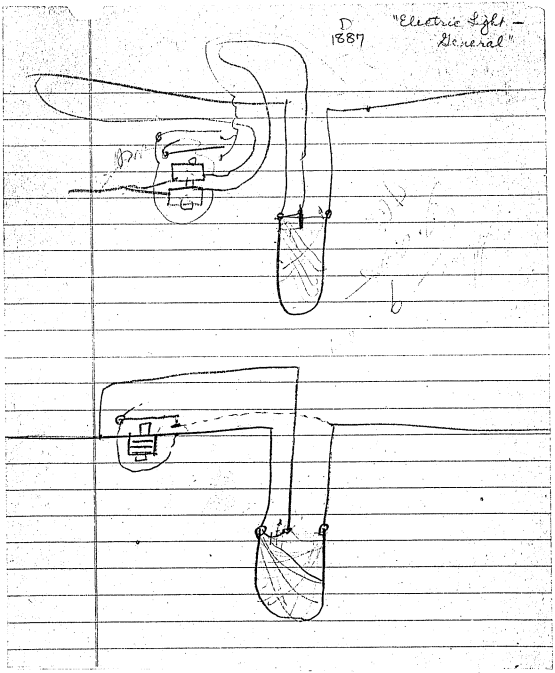
THOMAS A. EDISON,

40 & 42 WALL STREET.

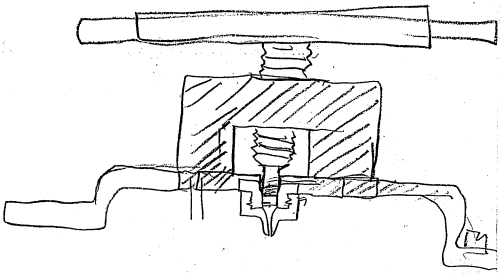
NEW YORK, 188



D
1887 "Electric Light — General"



1557-05-14



May 14 87

J. F. Ott

THE EDISON LAMP CO.,

East Newark, N. J., ... 188...

'046 Resistance

May 16 1887

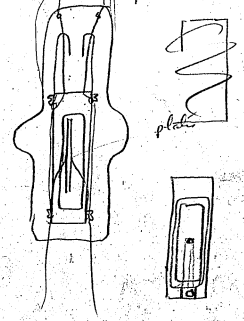
Johnson - Mumaugh Tag

About Every lamps in 20 decomt arc when the Carbon breaks - in this case The Circuit wire'd remain open - The right of our Co to ~~use~~ use of the paper Cut out is doubtful therefore I want to get a Cut out

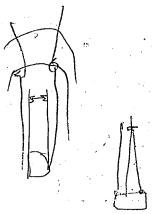
(1000 Volts, with plates one Millimeter apart. & one square decimetre in area each. produces an Electrical attraction Equal to 5-7 grammes weight

1 decimeter is I think about 126 square inches or plate 11 inches square. or 45 milligrammes to square inch - now if you can put one square inch of surface

of any another of Equal area both on delicate springs - The Current will cause them to draw together ~~as the force~~ just the same as if you had 45 milligrammes on one of the plates, I think this is plenty - I propose to make an experimental part this

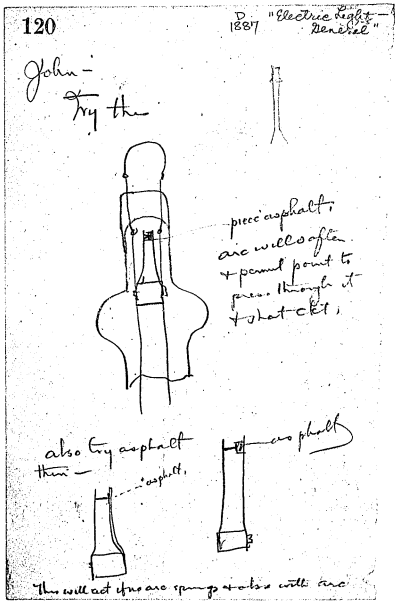


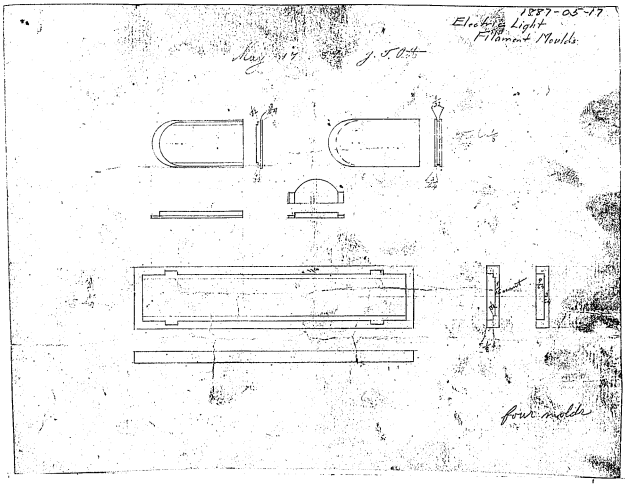
123

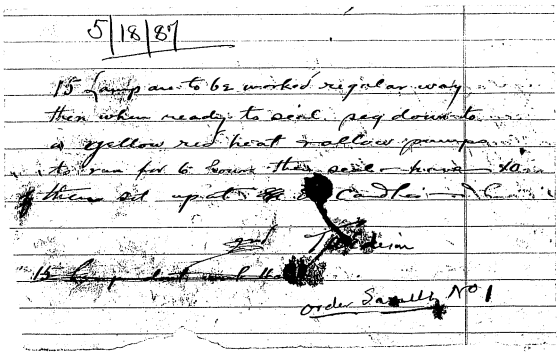


130

[ATTACHMENT]


120
1887 "Electric Light—
General"
John—
Try the
piece asphalt;
arc will soften
& permit point to
force through it
& short-ckt;
also try asphalt
thus—
asphalt.
arc asphalt
Thus will act if no arc springs & also with arc


1887-05-17
Electric Light
Filament Moulds
May 17
J. Scott
four molds


5/18/87

15 Lamps are to be worked regular way
then when ready to sink peg down to
a yellow red heat & follow pumps
to run for 6 hours then cease hoist 40 in
of them oil up at the [illegible]
and [illegible]
15 [illegible]
order Sandy No 1

FAE Notes - Copy "Lamps + Filaments"

CABLE ADDRESS "EDISON, NEW YORK" Recvd 5/28/84 of 82.

THOMAS A. EDISON,
40 & 42 WALL STREET.

NEW YORK, _____ 188

Saxaldy

Run a Curve of Regulars made this
Put in pumps and Exhaust + gradually
bring lamps up to about 3 candles say
as cohutich yellow — Then let them run
3 hours this way then gradually bring
it up to about 16 candles let it run
2 hours this way then bring it up
+ work out off clamps - and when
ready to seal off put it at yellow
red heat + let it burn 3 hours
then seal off — you can do this in one day
Edison

CABLE ADDRESS "EDISON, NEW YORK"

THOMAS A. EDISON,
40 & 42 WALL STREET.

NEW YORK, _____ 188

Saxe & Bly

Run another Curve get vac &
Run Lamp up to Bright yellow & keep
it there for 4 hours. then run to whitish
yellow say 3 candles keep it there 1 ½
hour then run it to get our off clamps &
put it back to yellow & run 3
hours & seal off —

No 4.

Another Curve put on early in morning
get vac & gradually run up to bright yellow
let it run till 5 o'clock then run gradually
up & work off our from clamps - then put it
back to yellow & seal off just before 6 o'clock

CABLE ADDRESS "EDISON, NEW YORK"

THOMAS A. EDISON,
40 & 42 WALL STREET.

NEW YORK, _____ 188

Dax:lbq

Run another Current - start at 7 o'clock & get vacuum then peg up to yellow burn 2 hours then advance peg to bright yellow burn 2 hours then advance peg to whitish yellow burn ½ hours. then advance peg to say 5 candles burn 1 hour then to 16 candles burn 1 hour then ~~keep~~ work on off changes & peg back to bright yellow until 6 o'clock & seal off—

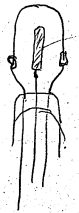
D
1887 "Electric Light – Drawings"

6/3/87

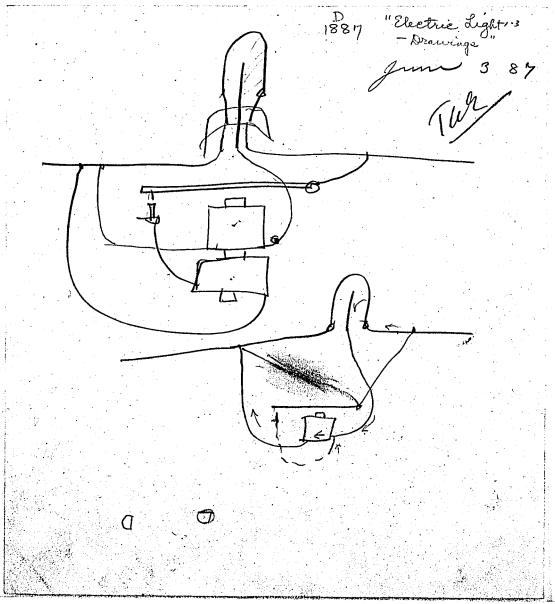
1-7

Holzer –

Please make dozen municipal Lamps with Carter wires like this



Yours


D
1887
"Electric Light"
- Drawings
June 3 87
TWR

CABLE ADDRESS, "EDISON, NEW YORK"

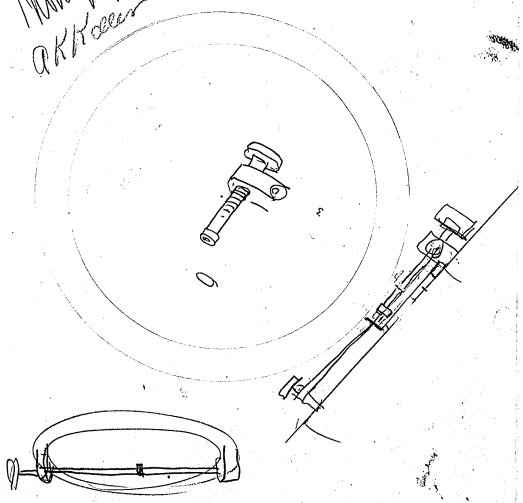
THOMAS A. EDISON,

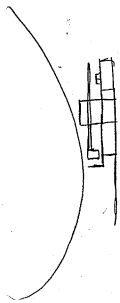
40 & 42 WALL STREET.

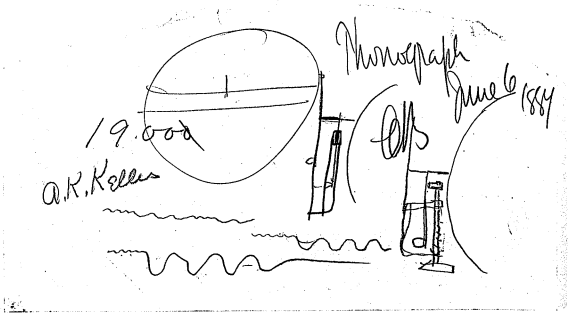
NEW YORK, _____ 188

June 6 1889

Phonograph

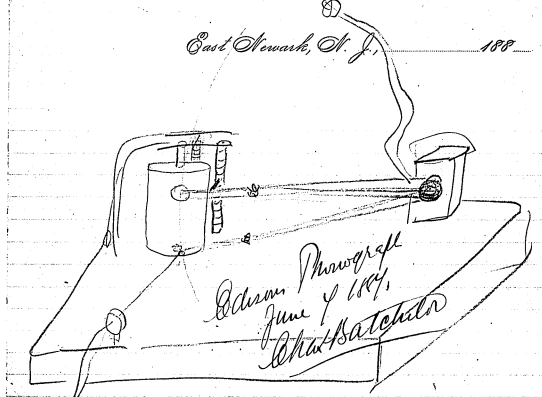





Monograph June 6 1884
19.000
A.K. Keller

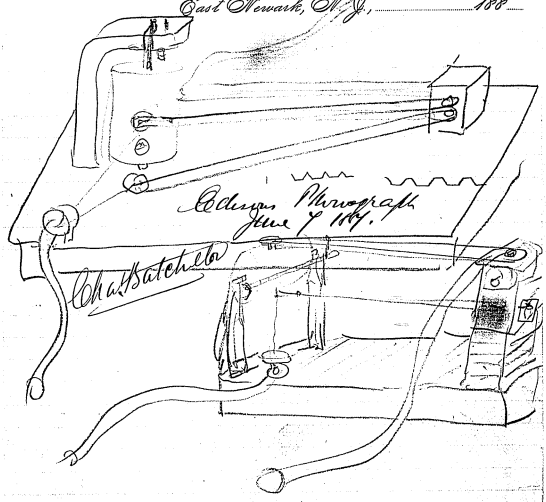
THE EDISON LAMP CO.,

East Newark, N. J., 188



THE EDISON LAMP CO.,

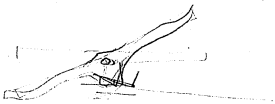
East Newark, N. J., ... 188__

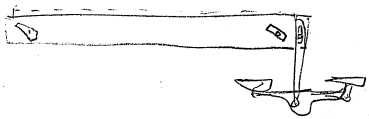


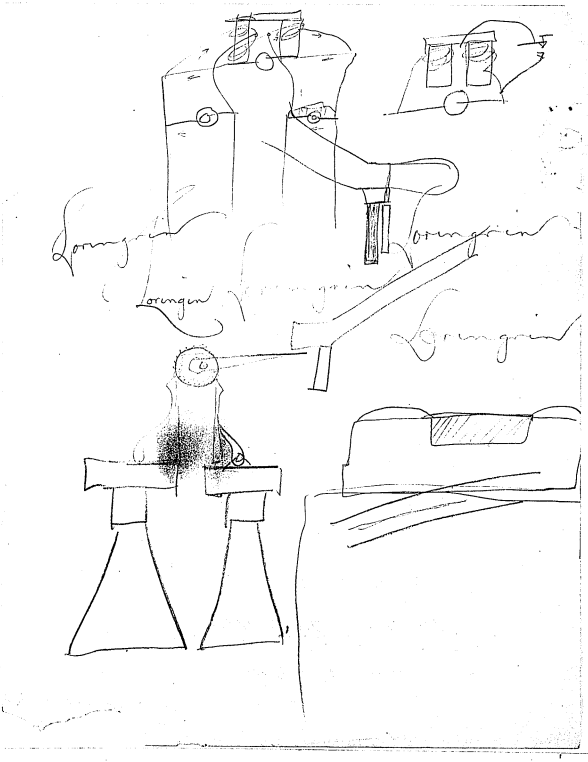
Cable Address "Edison, New York"

From the Laboratory
of
Thomas A. Edison.

Subject: _____ Orange, N.J. _____



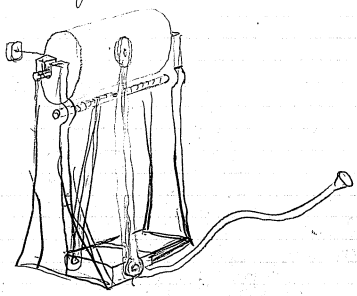




THE EDISON LAMP CO.,

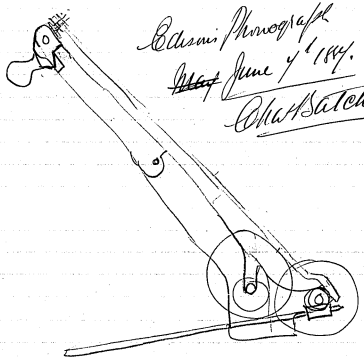
East Newark, N. J., ... 188 ....

Edison's Phonograph
June 1 1887.
Chas Batchelor



THE EDISON LAMP CO.,

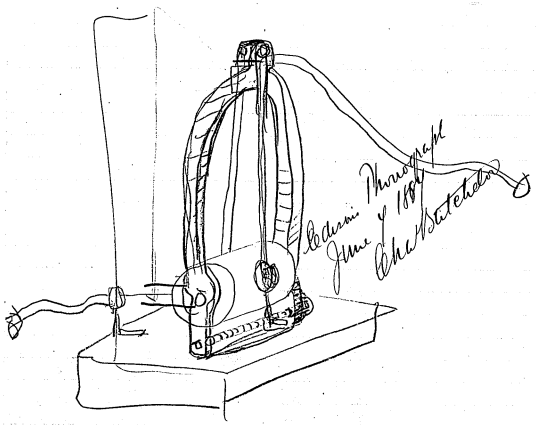
East Newark, N. J., ____ 188__



Edison Phonograph
~~Mar~~ June 4th 1889.
Albert Batchelor

THE EDISON LAMP CO.,

East Newark, N. J., ... *188*...



STAF

Put up 12 Lamps at 7 am get vacuum
Put in first peg on 55 Volt line, and gradually
peg up so you have full 55 Volt on Lamp -
Taking 2 hours, then pull all pegs & put on
110 Volt Current put 1st peg in & gradually
peg up so you will have full 110 Volts
on in 5 hours, then take off the 110 & put
on the 170 Volt line peg up slowly so you
will reach 130 Volts in 1 hour, then put
to yellow & seal off when power off.

Sat - No 6 -

Tue

June 7 1927

Jaxell

Run following Curve

12 Lamps put on at 9 am. 9 pt. Vacuum put on 55 Volt Current, peg up until all pegged out, in 15 minutes, then take out all pegs put on 110 Volt line, and peg up until [illegible] lasts more than 5 lamps get 55 Volts, then peg up in 30 minutes until all pegs in then, put on 160 Volt line, put in peg & peg up next to last lamp 60%. then in 30 minutes peg out lamp 60% & go & peg up in reverse, allow it burn 5 minutes after last peg then put to yellow 10 minutes & load

Run 2 Curves this way, so as to get 20 good lamps

Order 7.

Dax.

No 8

Run 12 lamps get vac. then peg right up to ~~Boost~~ where the clamps get hot ~~have the all done in 5 minutes~~, put peg in + hold for 3 seconds each time, then wait little + go to next peg hold 3 seconds + so on, no current on between times after this put at yellow 10 minutes + seal off -

No 9

Another Curve: get vacuum: run right up as far as you can without arcing lamps: start at low current. ~~Heat~~ do this until clamps clean then hold at 80 candles 5 min + seal off

No 10

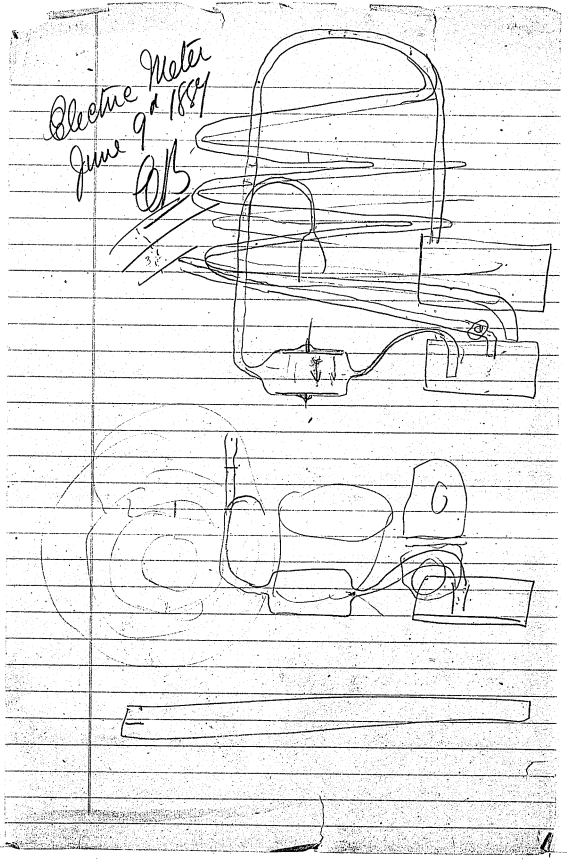
Run Curve - get Vacuum put peg in and out 50 times 1 second each. if tubi clean go to next peg + so until clamps clean then burn 5 minutes at 80 candles + seal off

Saxelby -

No 11

Make mixture of linseed paint & dip the lamps in so as to get good coating but wipe it away down near clamps so you can see clamps when you are working -
Work these lamps off regular

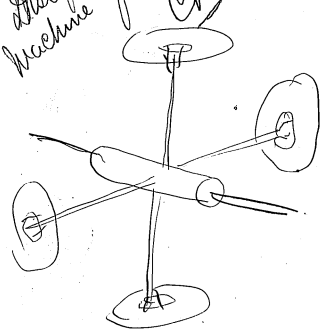
Electric Meter
June 9th 1884



158706-09

The Edison Lamp Co.,

Harrison, N. J., ... 188



The Edison Lamp Co.,

Harrison, N. J., 6/10 ~ 1887

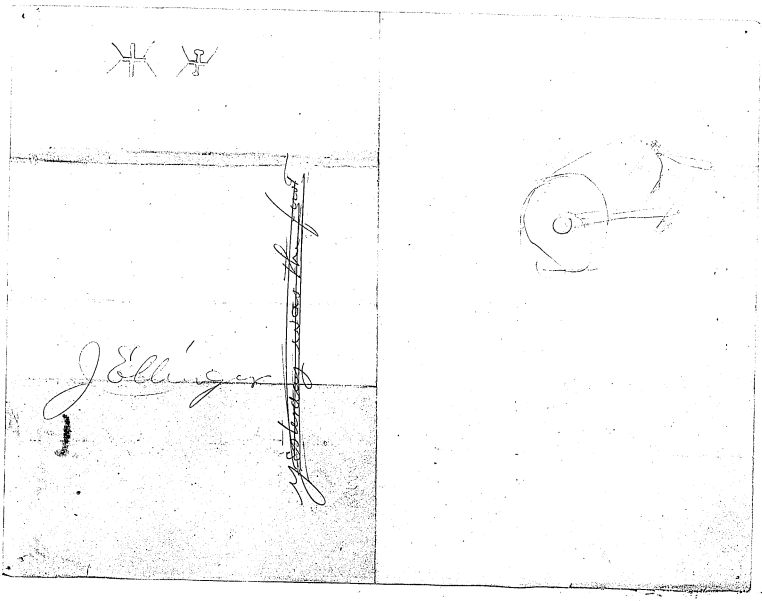
Saxelby –

Order 12

Run order of 12 10 cp lamps worked regular but not above 110 volts Current —

to Gr set up at 16 Candles by John Howell —

C
A
1887-06-16

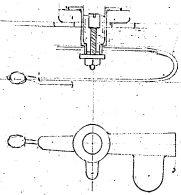


June 17. 84

J. T. Otto

Cut-out Cable Cut-out sockets

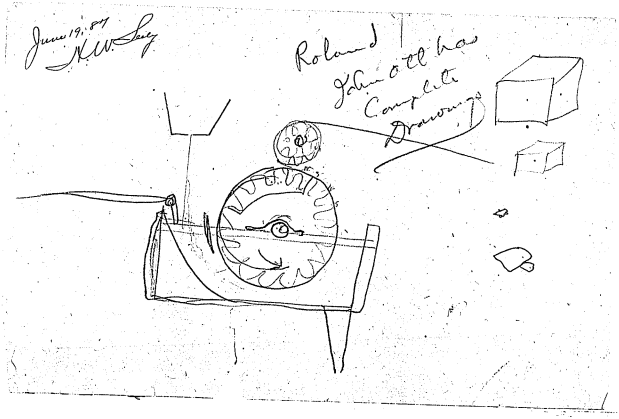
this is for use in regular sockets



Dec 27 1887

Patented

Syracuse N.Y.


June 19, 87
Roland
Complete
Drawings

The Edison Lamp Co.,

Harrison, N. J., 188

Mains as in the regular system
~~as in the subject~~ fig 3 & 4 illustrate
only subfeeder net
work —

Etc Etc —

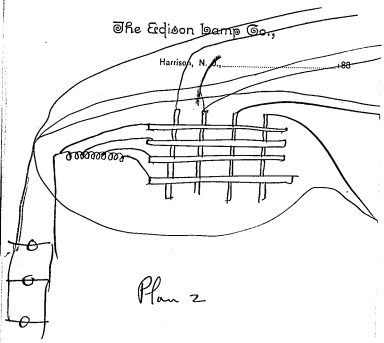
The main
Claim is for a
Connected subfeeder net
work Connected to the
Station by a main feeder

2 or more
areas in Series arranged
with Net work mains — net work
Sub-feeders & main feeders —
Etc

Aug 24/87 Thilden

The Edison Lamp Co.,

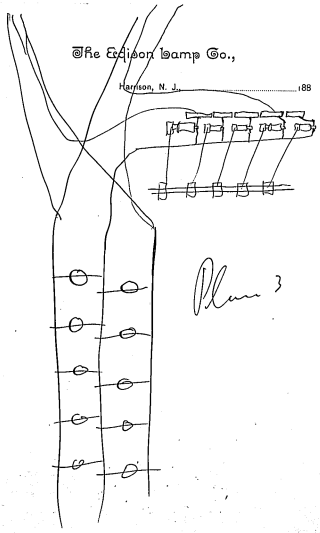
Harrison, N. J., 188



Plan 2

The Edison Lamp Co.,

Harrison, N. J., ... 188

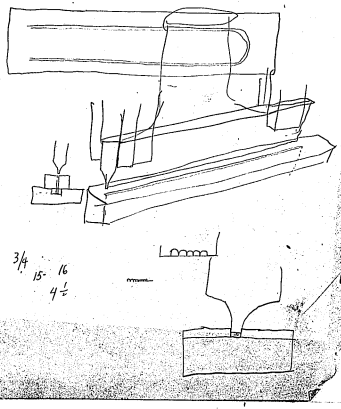


The Edison Lamp Co.,

Harrison, N. J., ... 188

$\frac{1}{100}$ — $\frac{1}{120}$ of 1 amp.

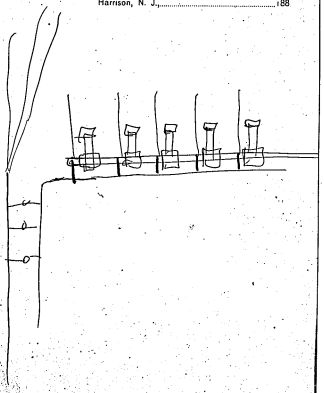
10. 12 " 1000 amp —



(1891)

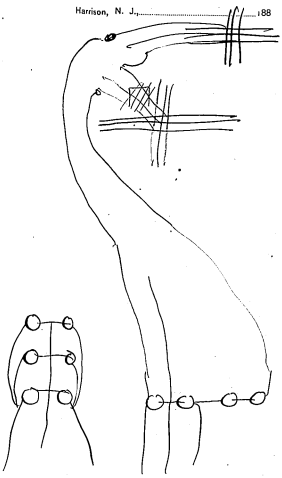
The Edison Lamp Co.,

Harrison, N. J., ... 188



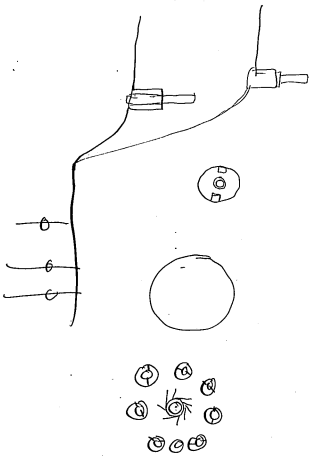
The Edison Lamp Co.,

Harrison, N. J., ... 188



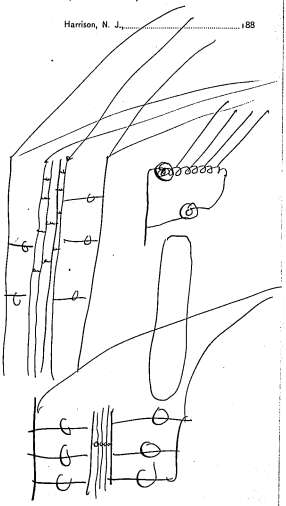
The Edison Lamp Co.,

Harrison, N. J., ... 188



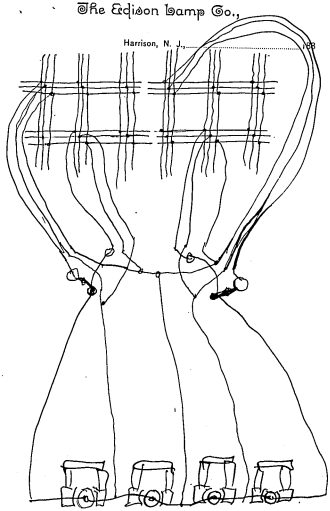
The Edison Lamp Co.,

Harrison, N. J., ... 188



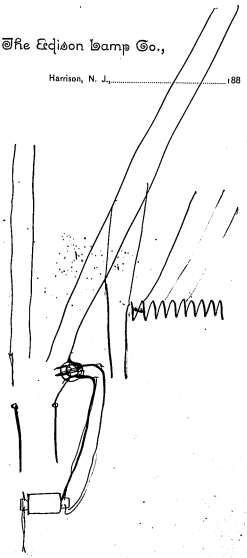
The Edison Lamp Co.,

Harrison, N. J., ... 188



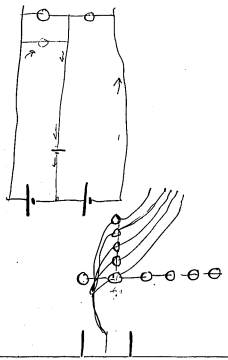
The Edison Lamp Co.,

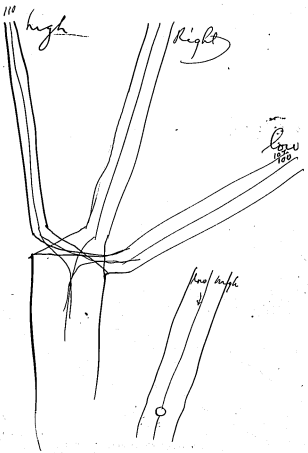
Harrison, N. J., ... 188



The Edison Lamp Co.,

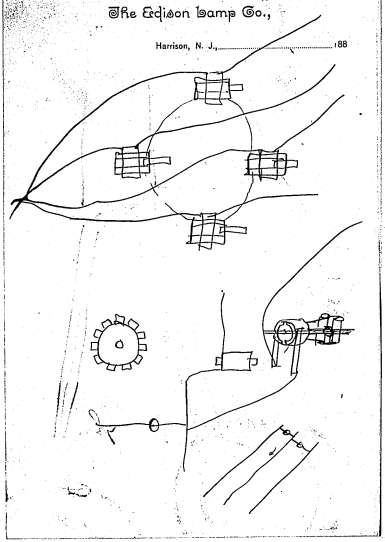
Harrison, N. J., ... 188





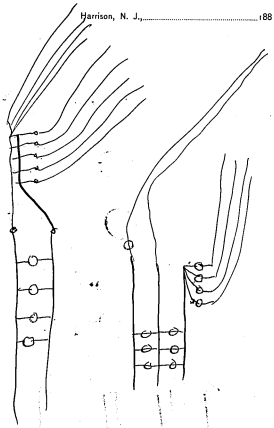
The Edison Lamp Co.,

Harrison, N. J., ... 188



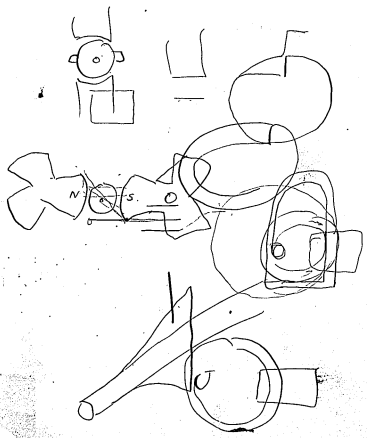
The Edison Lamp Co.,

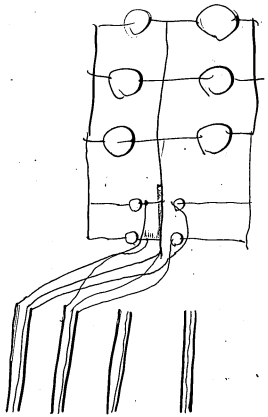
Harrison, N. J., ... 188

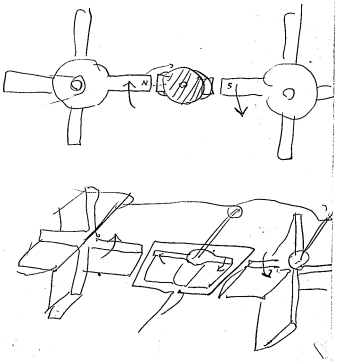


The Edison Lamp Co.,

Harrison, N. J., ... 188



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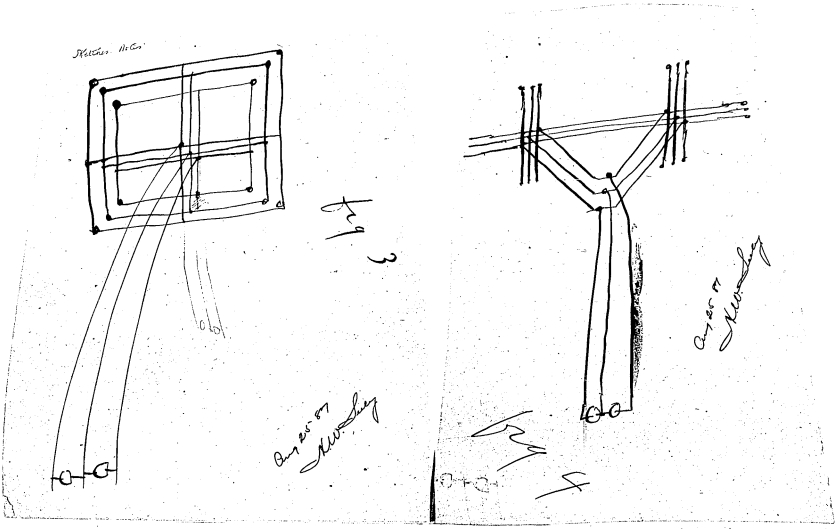
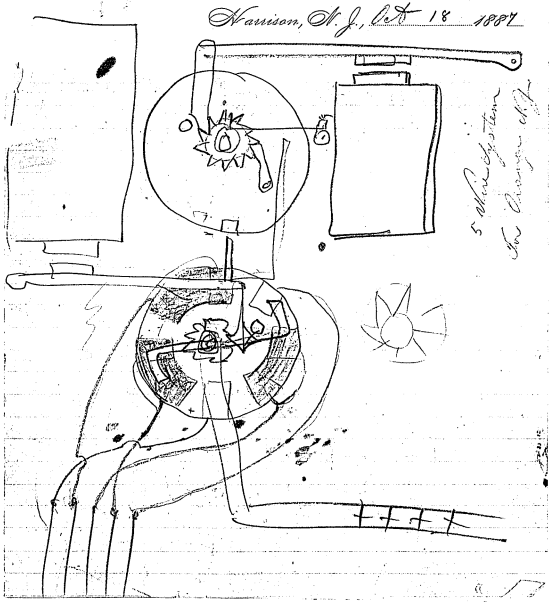
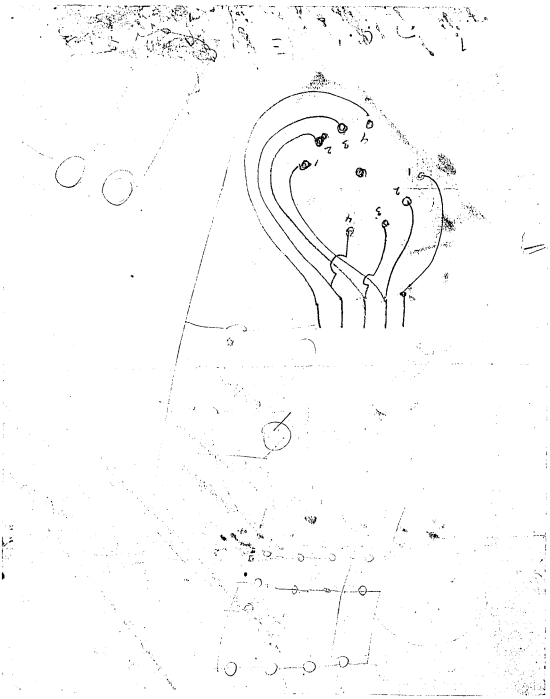


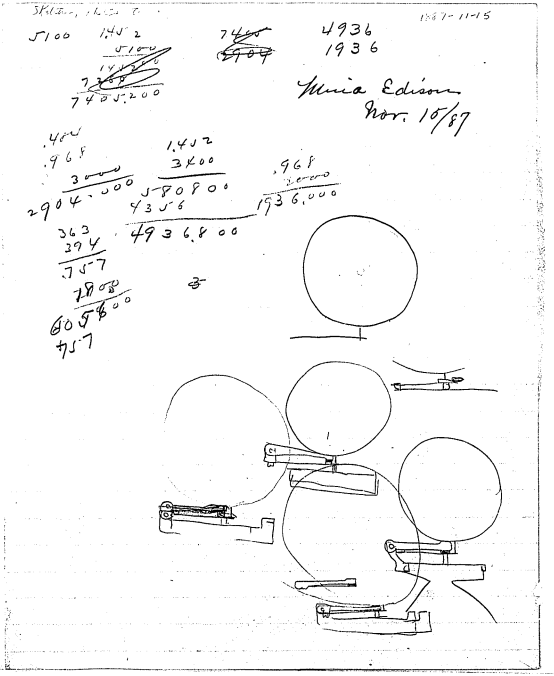
1887-10-18
3 wire system

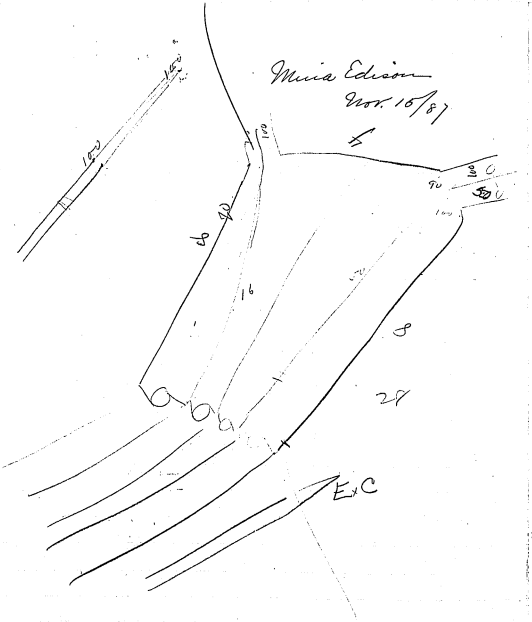
THE EDISON LAMP CO.,

Harrison, N. J., Oct 18 1887



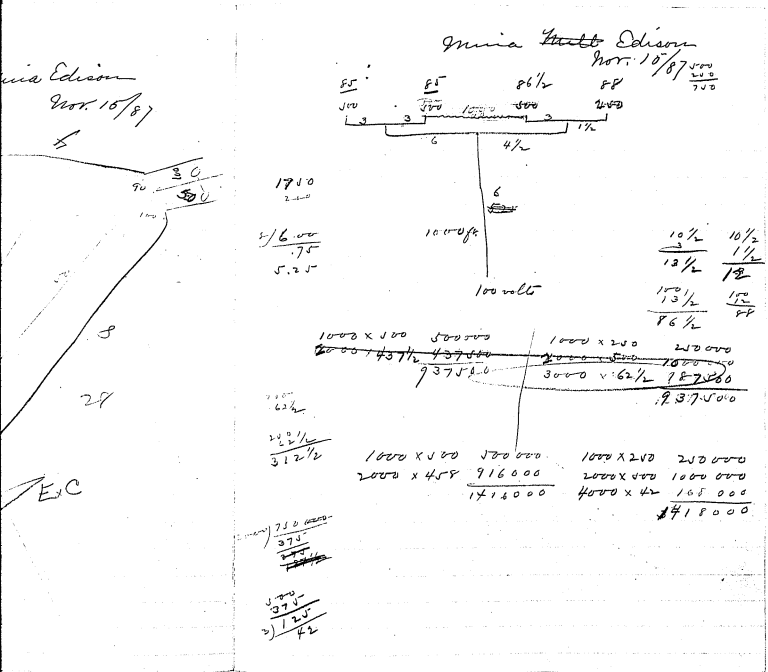






Mwia E

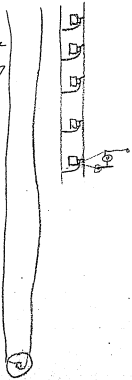
55'
500
5
3
6
4½
6
10 mufs
100 volts
1000 x 500 500000
937½ 437500
937500
3
62½
312½
1000 x 500 500000
2000 x 458 916000
1416000


Edison
Nov. 10/87
100 volts

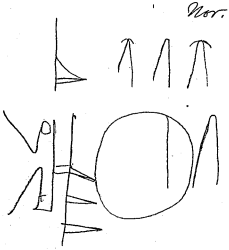
From the Laboratory
of
Thomas A. Edison.

Orange, N.J. _____ 188

Miria Edison
Nov. 15/87



Miria Edison
Nov. 15/87



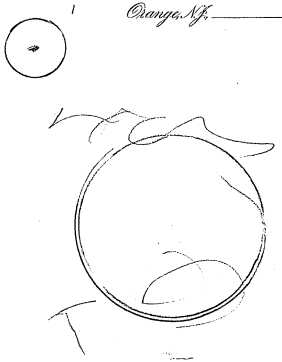
Yours truly,
Thomas A. Edison.

Orange, N.J. _____ 188

From the Laboratory of Thomas A. Edison.

Mina Edison
Nov. 16/87

Orange, N.J. _____ 188

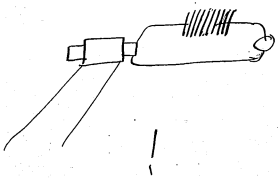


From the Laboratory of Thomas A. Edison.

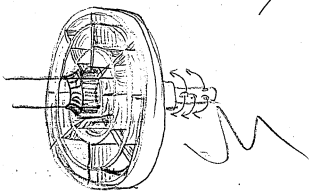
Mina Edison
Nov. 16/87

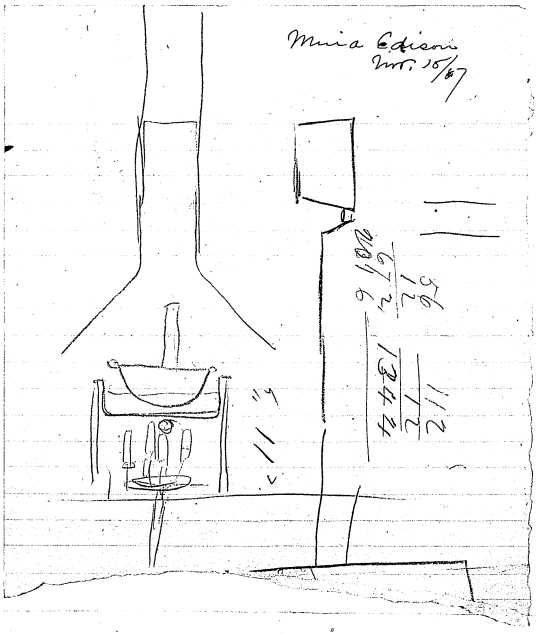
Orange, N.J. _____ 188

P 20 amp M 40

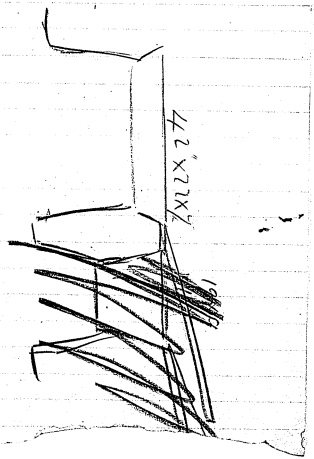


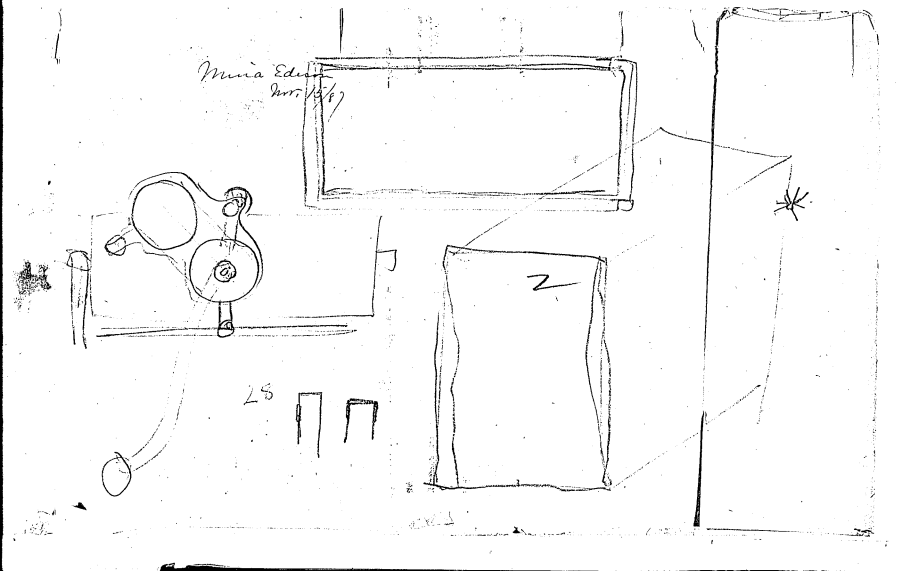
Mina Edison
Nov. 15/87

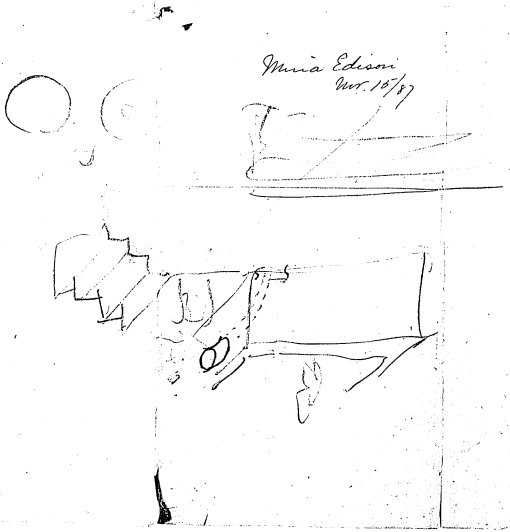



Menlo Edison
Inv. 10/87

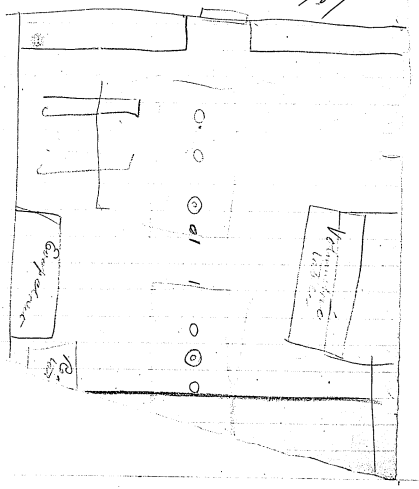
Mica Edison
Nov. 10/87




Mina Edwin
Nov. 1/57
2
25

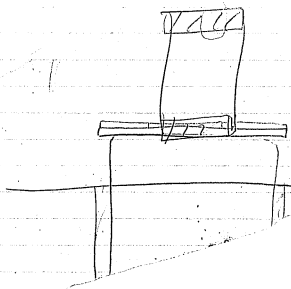

Thos Edison
Nov. 18/87

Mina Edison
Nov. 10/87

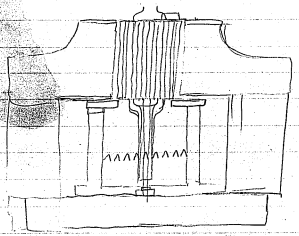


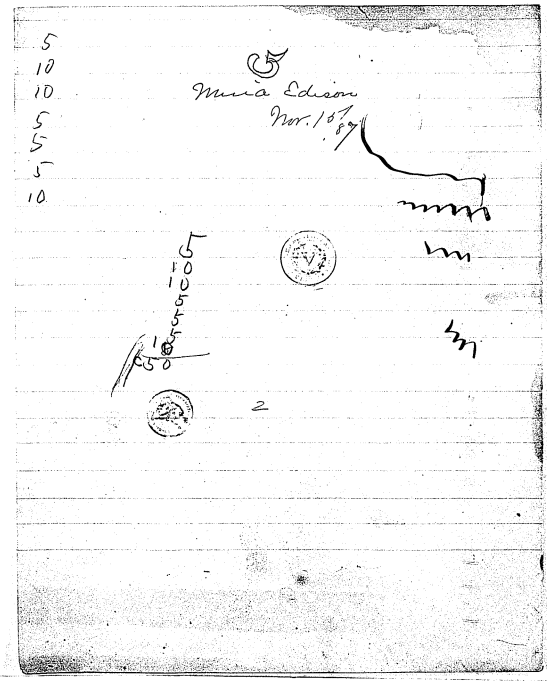
Mina Edison
Nov. 10/87

Reagent Table -
Evap Closet -
Volumetric table, 3 x
Organic Anglis -



Menlo Edison
Nov. 15/87




5
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Mina Edison
Nov. 10/87
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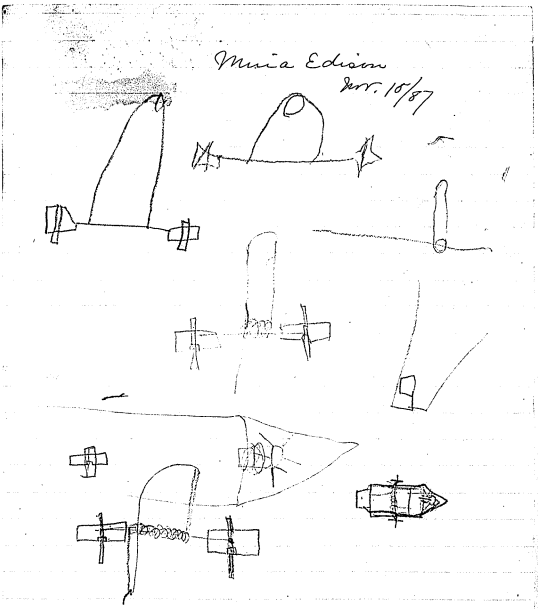
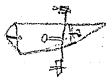
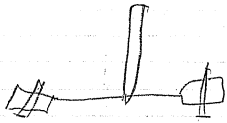
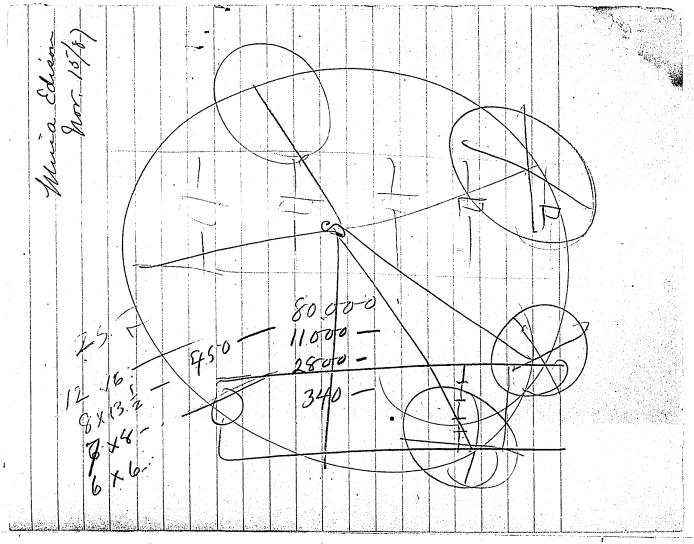

Musia Edison
Nov. 10/87

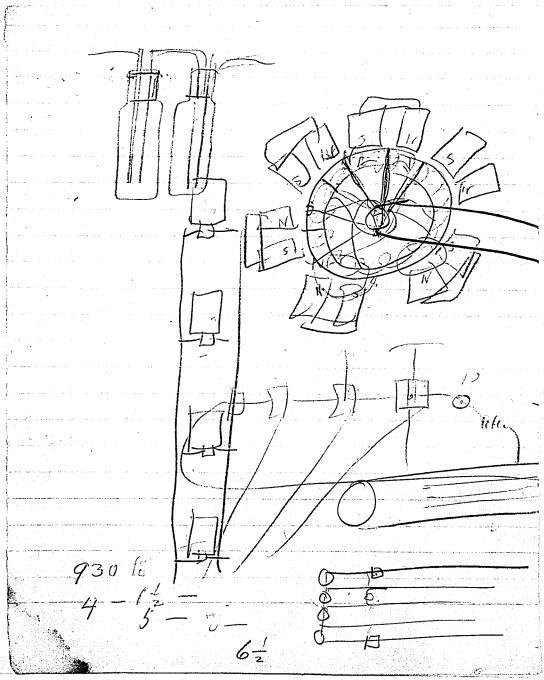
Mina Edison

Nov. 15/87

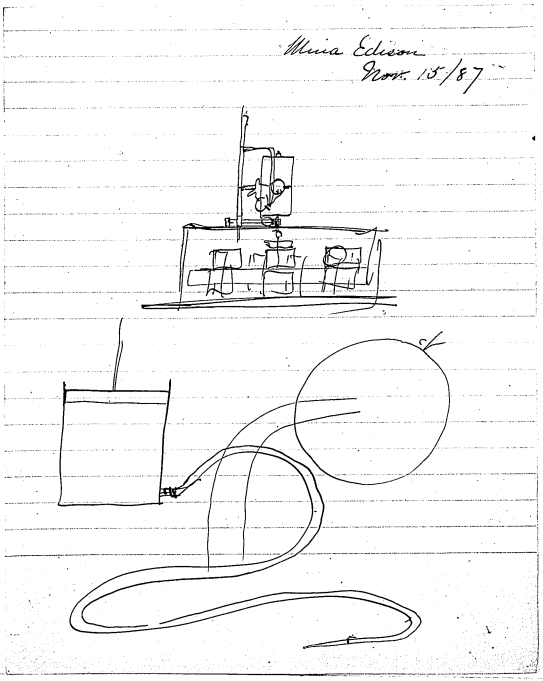




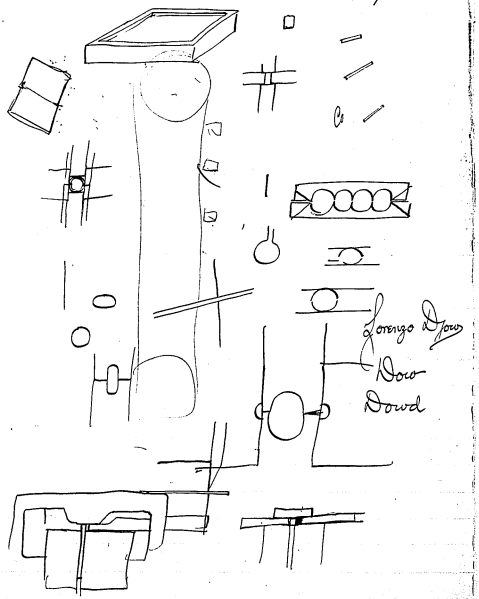

Illinois Edison
Nov. 15/83
45'
12 . 16 .
6 x 13 1/2 —
8 x 4 —
8 x 6 —
6 x 6 —
450 —
80,000
11,000 —
25,000 —
340 —

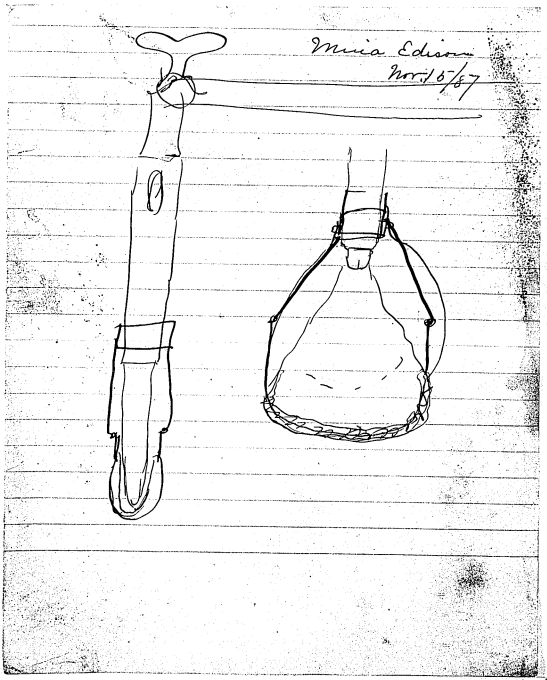

930 ft
4 – 1½ –
5 – 0 –
6½

Thos. Edison
Nov. 15/87

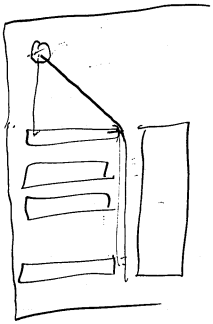


Mina Edison, Nov. 10/87

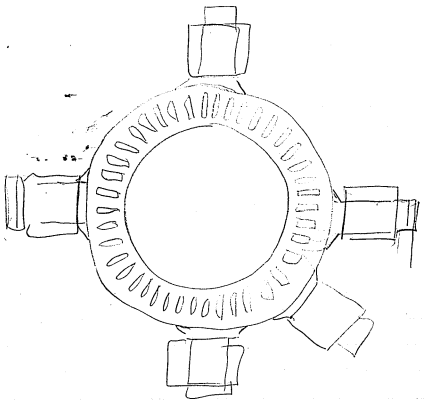



Mina Edison
Nov. 16/87

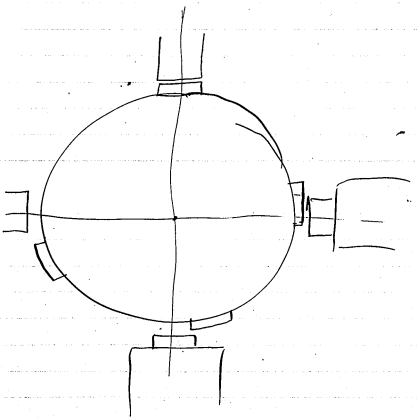
Thos Edison
Nov. 15/87

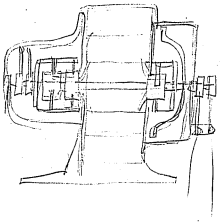


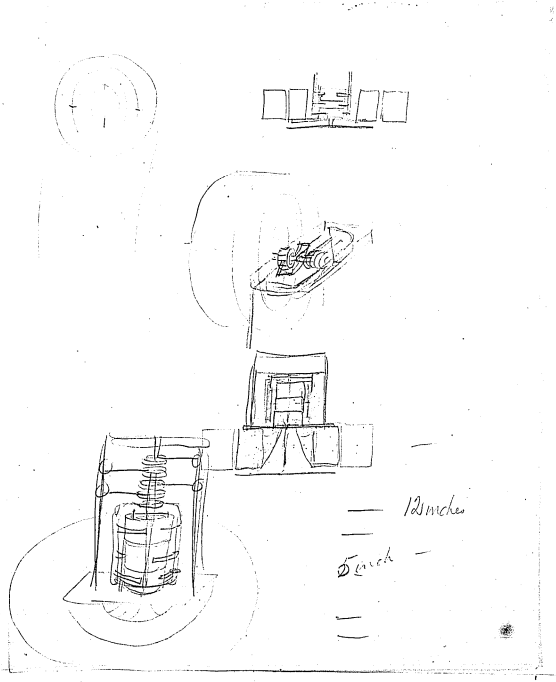
Mrs. Edison
Nov. 15/87

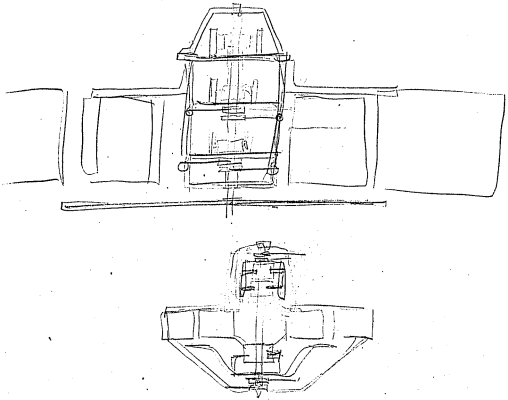


Mina Edison
Nov. 15/07

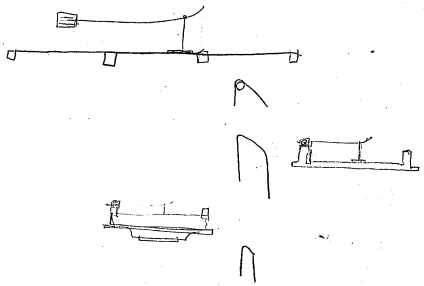




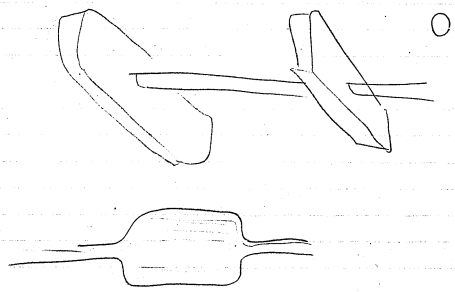

12inches
5inch



Mina Edison
Nov. 10/87

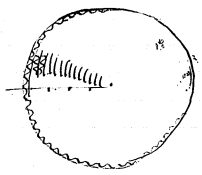


Mina Edison
Nov. 10/87



Mina Edison

Nov. 15/87



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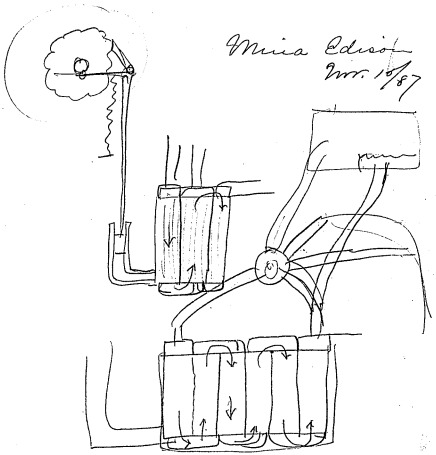
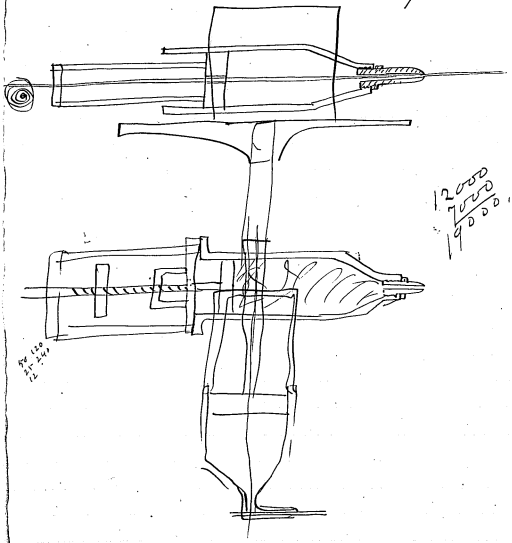
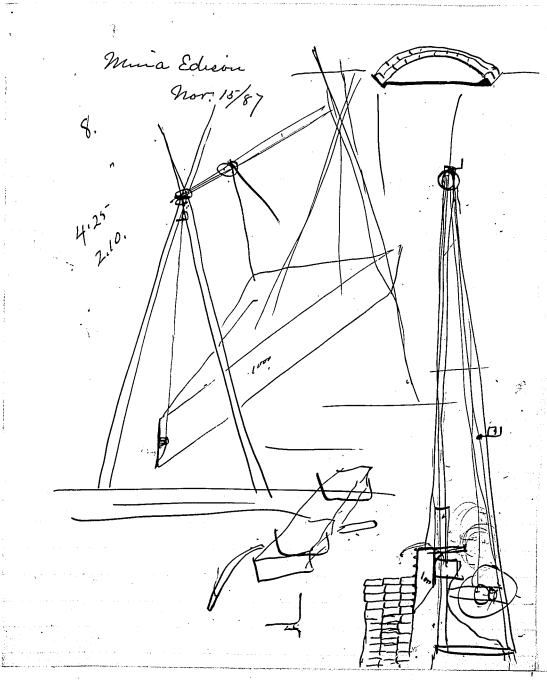
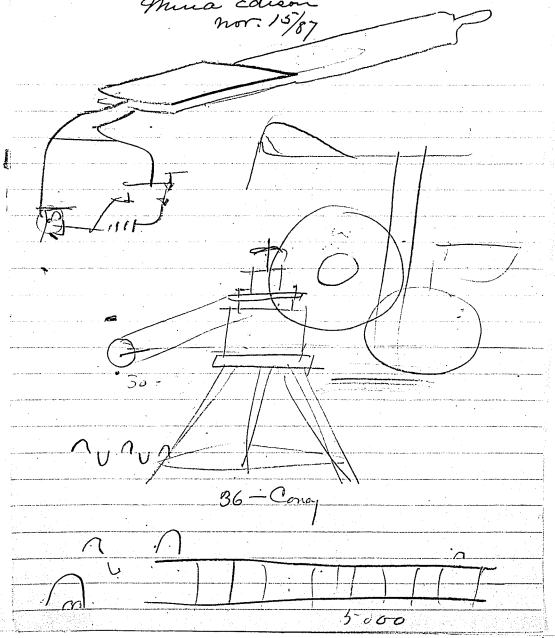

Mina Edison
Nov. 10/87

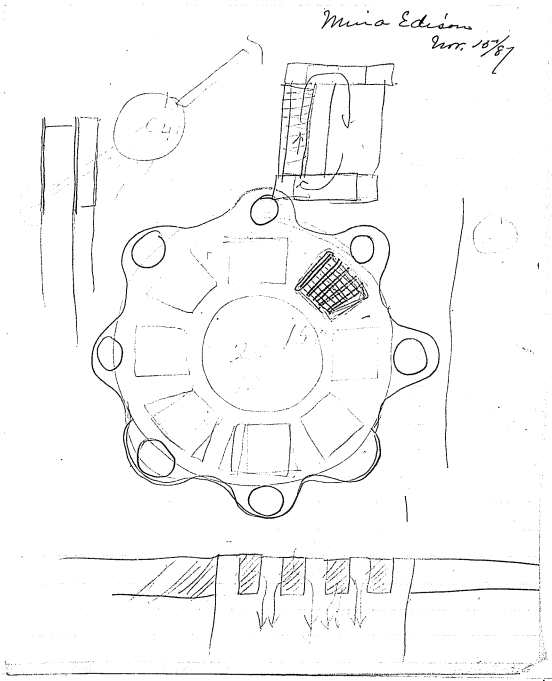
Mina Edison
Nov. 15/87




Mina Edison
Nov. 18/87
8.
4'25"
2.10.

Mina Edison
Nov. 15/87




Mina Edison
Dec. 10/87

Mrs. E.	Jno.
9.	2
19	8
21	13
11	4
22	5

100 —		100
50		200
25 —		400
12		8
6		1600

1/2 4000.

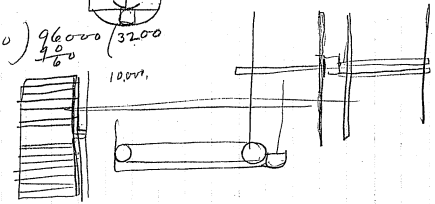
40 —	8 —	3000
20	4 —	6000
10	2	12000
5 —	1	24000
2.5 —	.5 —	48000
1.25 —	025 —	96000

inch — 500

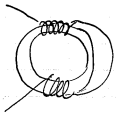
14
16
15
11
22 13

Maria Adams
Jno. 107

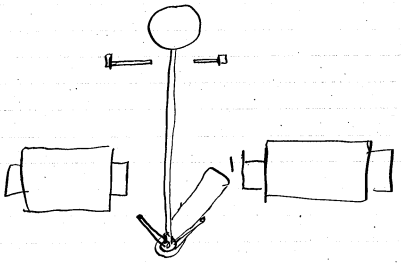
30) 96000 (3200
90
60

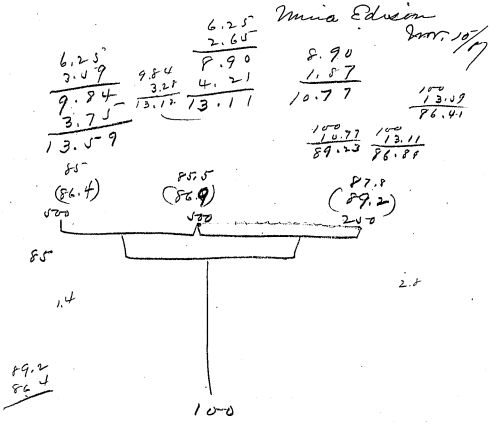


Mina Edison
Nov. 10/87



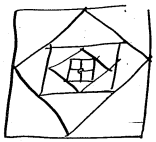
Mina Edison
Nov. 15/87

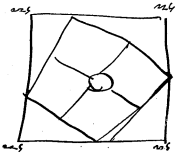


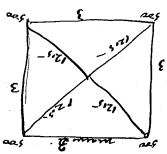

Mina Edwin
Instr. 10/17
6.25
2.64
8.90
4.21
13.11
6.25
3.79
9.84
3.71
13.59
9.84
3.28
13.12
8.90
1.87
10.77
100
13.11
86.41
100
10.77
89.23
100
13.11
86.89
85
(86.4)
85.5
(86.9)
87.8
(89.2)
100
100
2.4
85
1.4
2.6
89.2
86.9
100

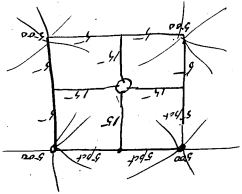
Mrs. Edson

Nov. 10/67



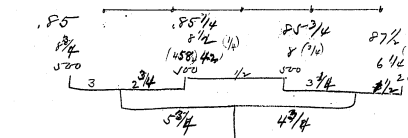


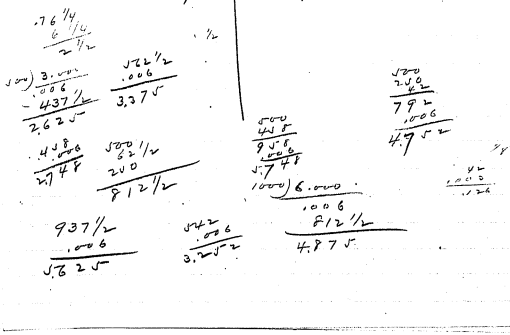




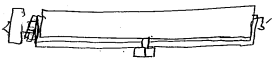
Mina Edison

Nov. 10/87



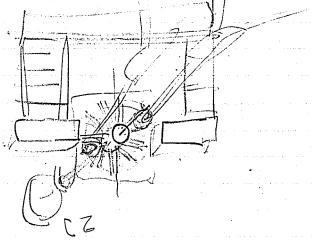


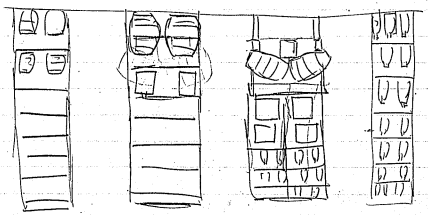
Mina Edison
Nov. 10/87



Mina Edisons
Nov. 15/87

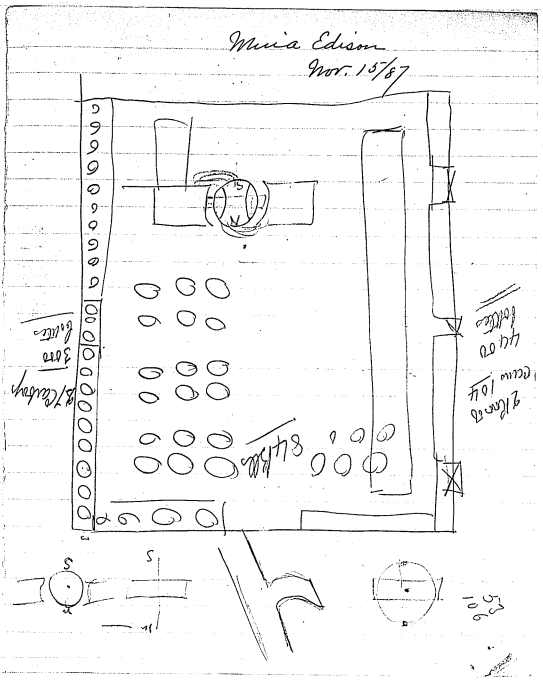
Vicissitudes

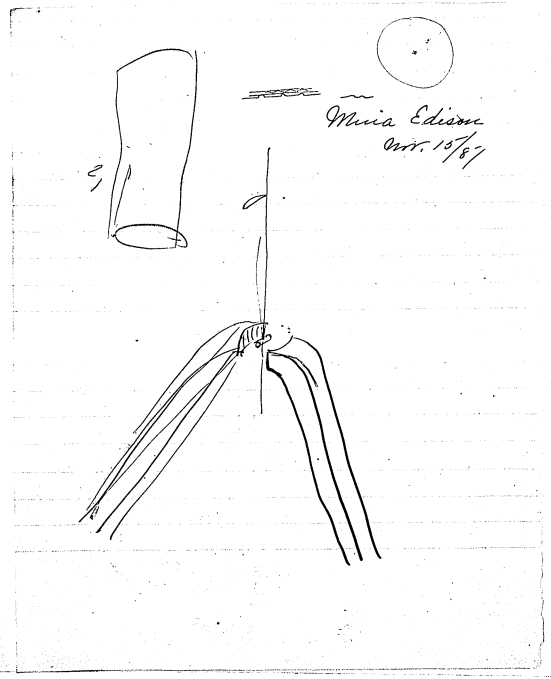




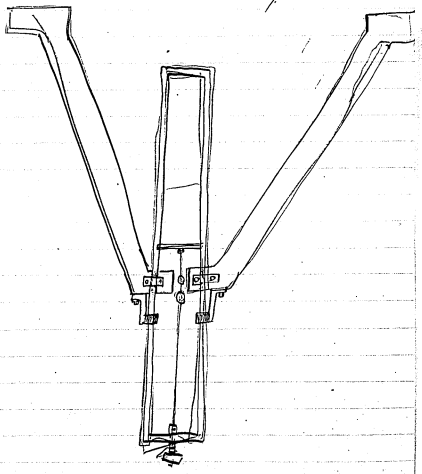
Mina Edison

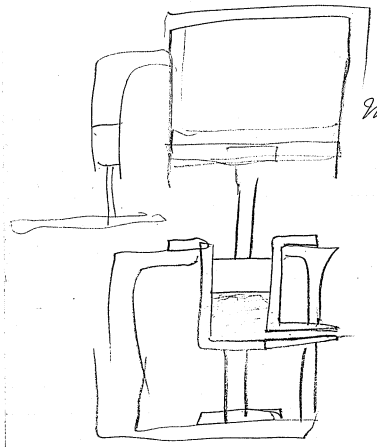
Nov. 15/87




Mina Edison
Oct. 15/87

Menlo Edison
Nov. 13/87



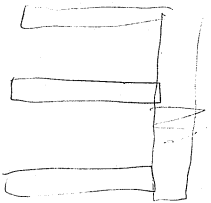


Mina Edison
Nov. 15/87

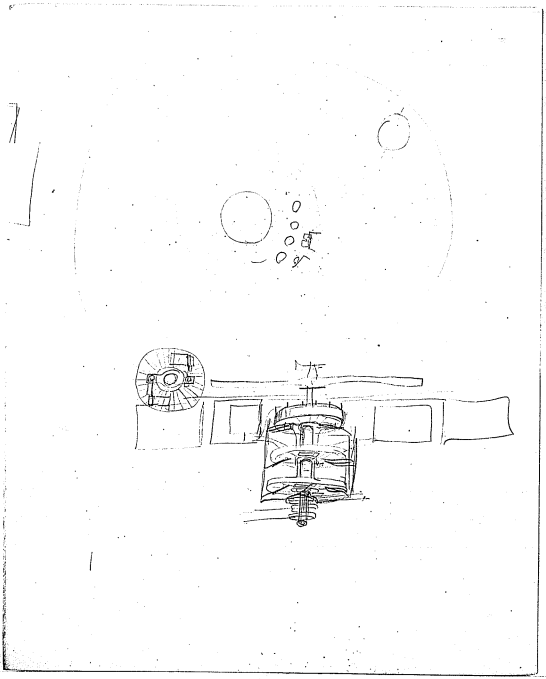
1

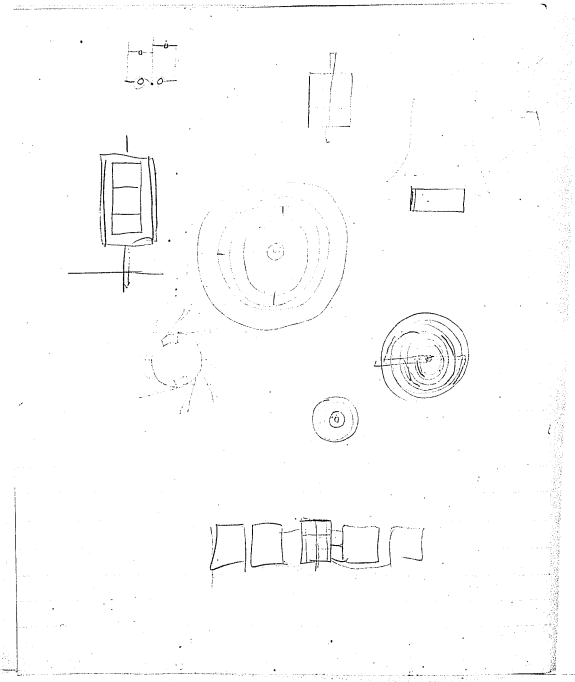
Mina Edison
Nov. 15/87

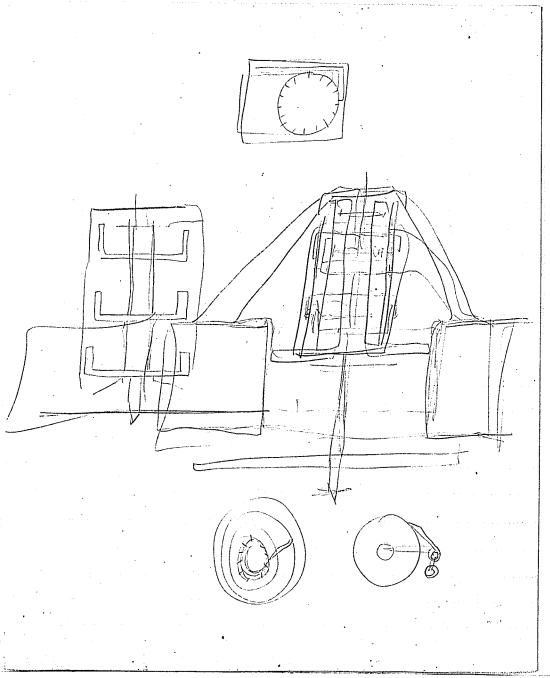
1/10 Hr Guide to 20

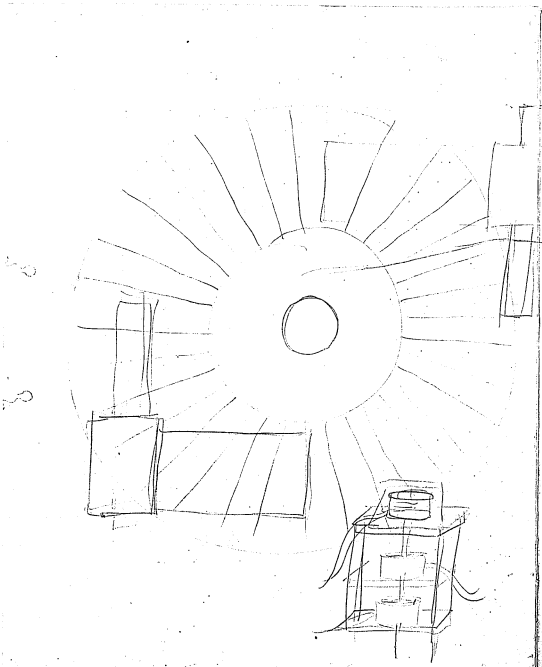


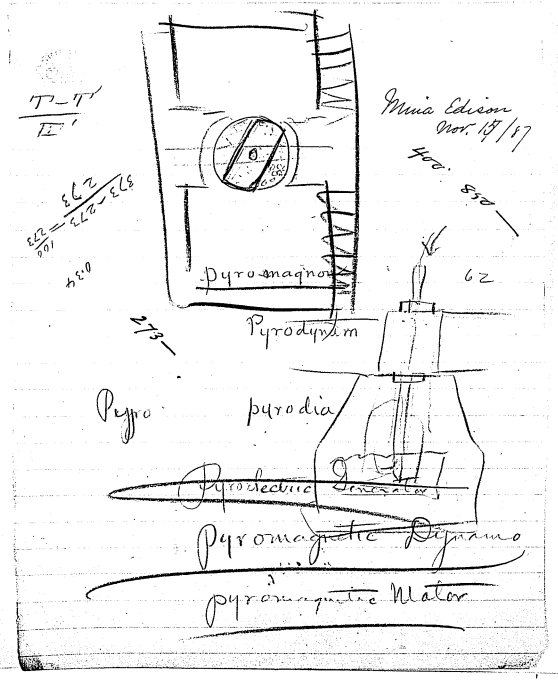
36
36
216
108
1296
576
8424
8424
38880
4776
12000
9
54







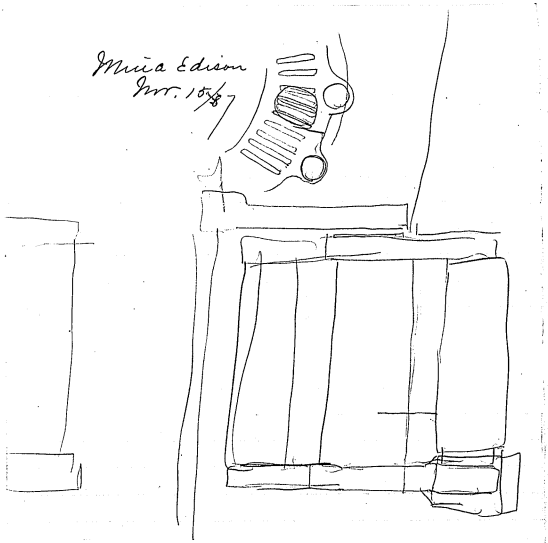


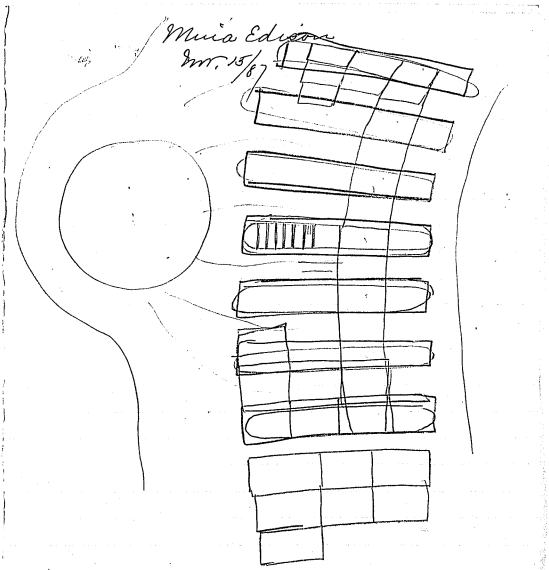

Mina Edison
Nov. 15/17
Pyromagnetic
Pyrodynam
Pyro
pyrodia
Pyroelectric Generator
Pyromagnetic Dynamo
Pyromagnetic Motor

J B Evans.

2 Sept -

desire to call your attention to Clause 4th in your Contract with me - It seems to me that ~~in that~~ ~~you put more men on/ you will be~~

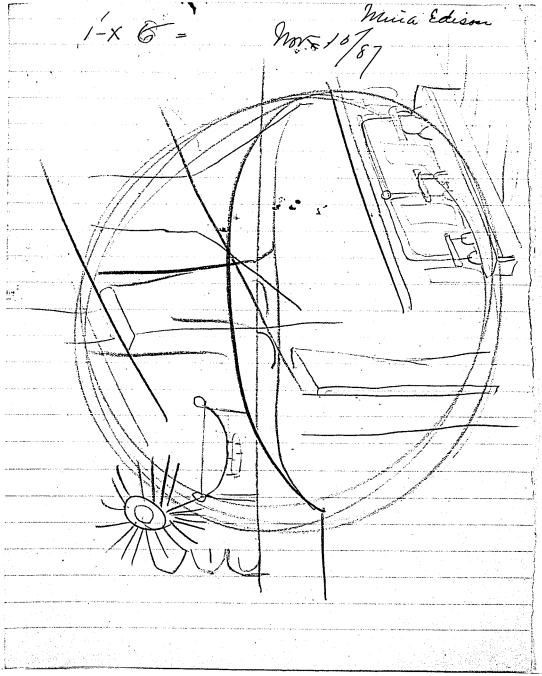

Mina Edison
Inv. 1878

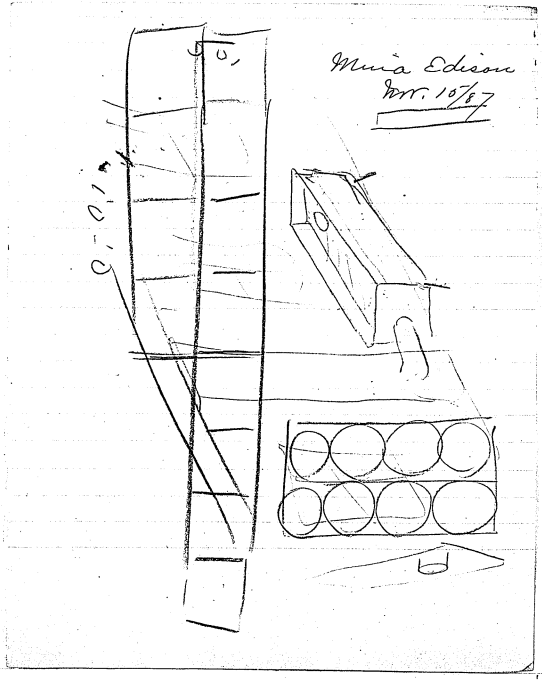

Mica Edison
Mar. 15/87

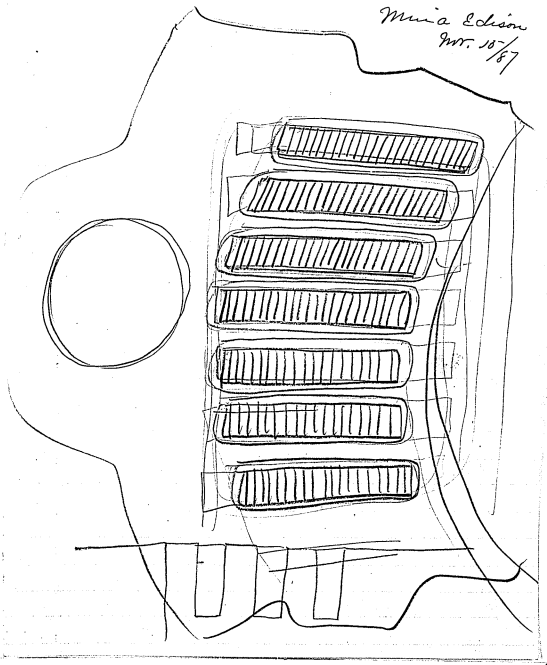
1-X 6 =

Mina Edison

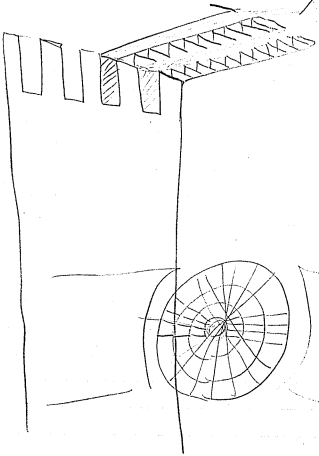
Nov 10/87



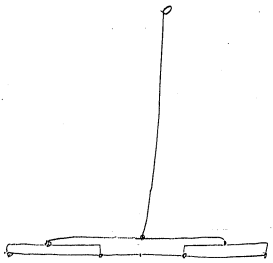

Mina Edison
Dec. 10/87

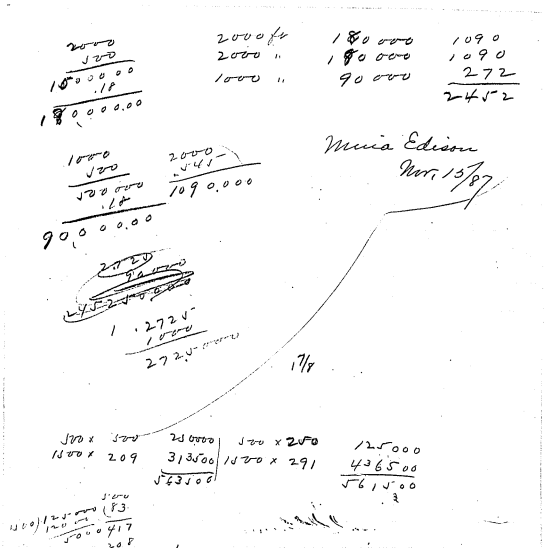

Mina Edison
Mar. 10/87

Mina Edison
Nov. 15/87

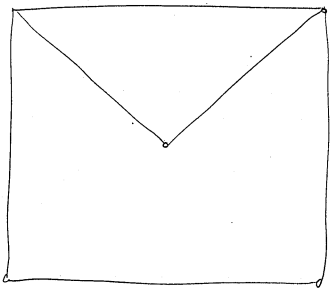


Mina Edison
Mrt. 15/87

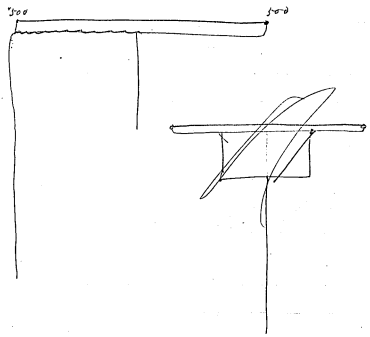


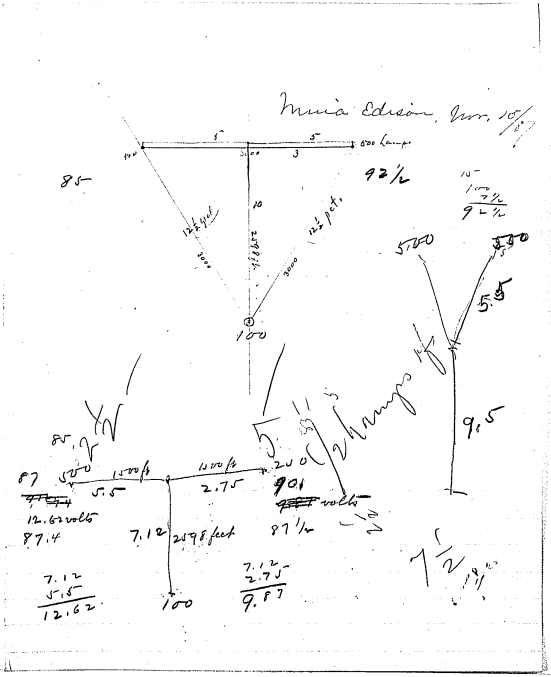

Maria Edison
Nov. 15/87

Mina Edison
Nov. 10/87

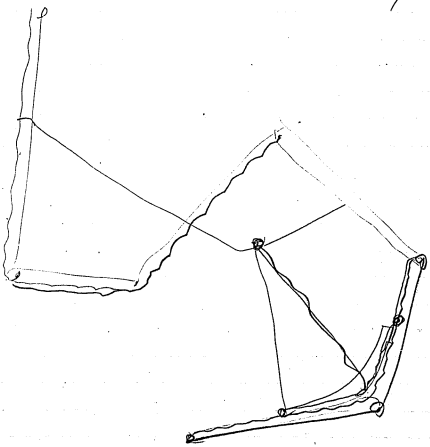


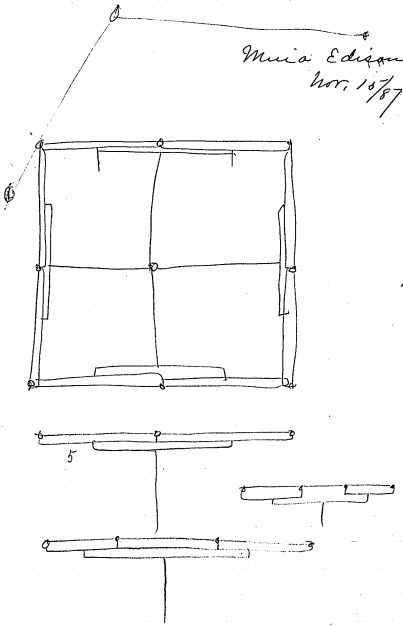
Mina. Edison
Nov. 15/87



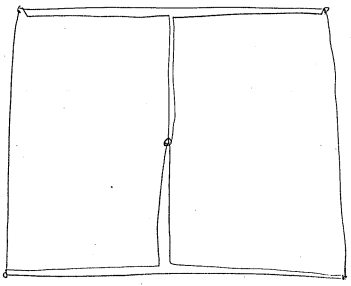

Musia Edison, Inv. 10/
5
5
3
800 Lamps
85
92½
10
12½ yard
12½ feet
2198 feet
100
5700
5.5
9.5
87
5.5
1500 ft
1500 ft
2.75
901
12.62 volts
87.4
7.12
2198 feet
87½
7.12
5.5
12.62
7.12
2.75
9.87
100

Muria Edison
Nov. 15/87



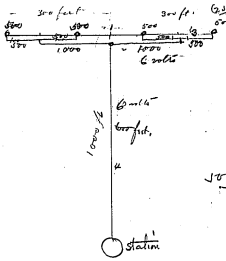

Music Edison
Nov. 10/87

Mina Edison
Nov. 15/87



Mira Edison

Nov. 15/87



6812 lbs. #1056

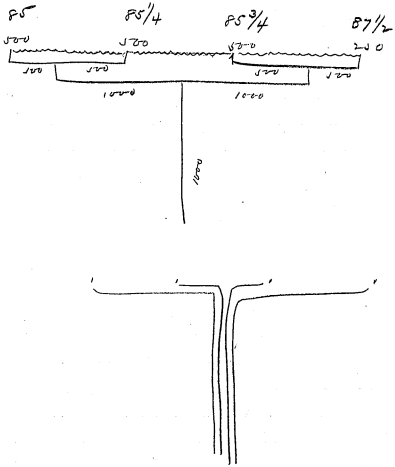
#4014

#602

2930

2930 lbs.

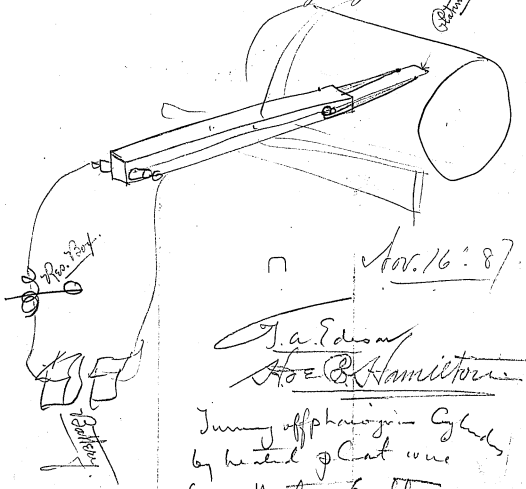
Mucia Edison
Nov. 15/87



Cable Address "Edison, New York"

From the Laboratory
of
Thomas A. Edison.

Orange, N.J. 188



Nov. 16: 87.

T. A. Edison
Alex. E. Hamilton

Turning off phonograph Cylinders
by means of Coat worn
from Motor Cutting.

600
500
150
75
600
250
1500
500
400
500
1200
400
600
200
7775

300
500
150
200
600
7000
190
149
2100
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1100
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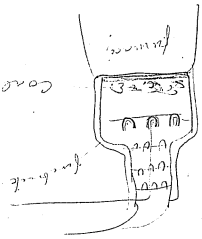
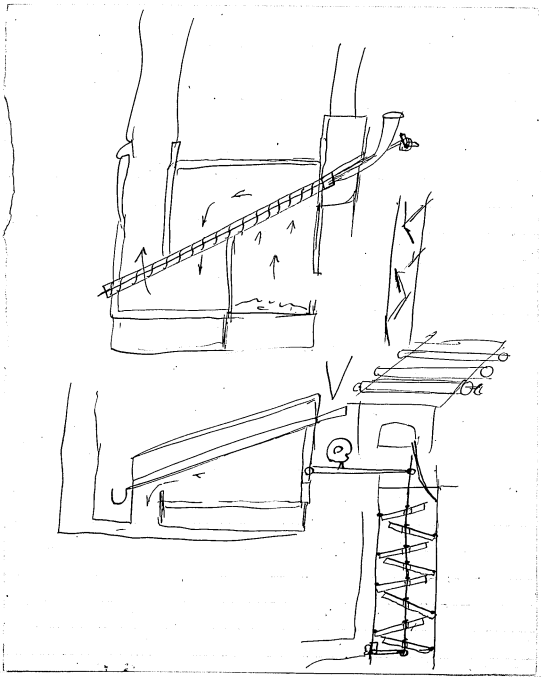
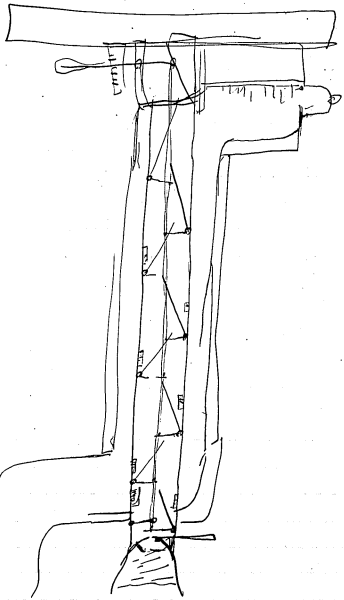
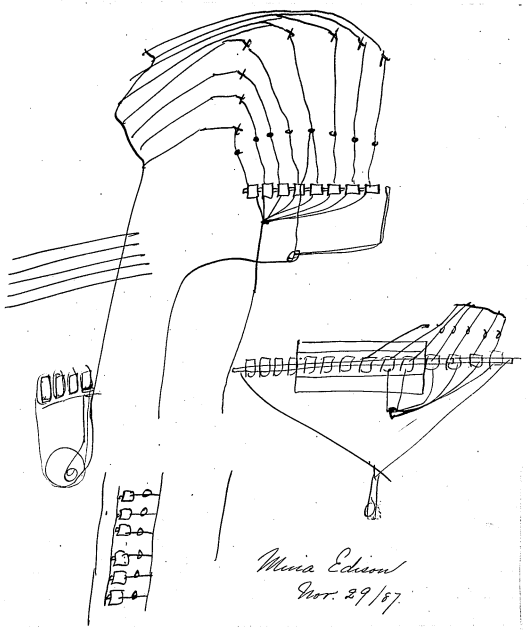
55000
89364
18000
71,364



Alma Edson
Nov 29/97


V
U





Minia Edison
Nov. 29/87

Cable Address "Edison, New York."

From the Laboratory

of

Thomas A. Edison,

Orange, N. J. Dec 30/1887

Motograph Relay

Motograph Mirror

Volt Indicator

Pyromagnetic Generator,

Joy phone —

Mirror Expansion Galvanometer

Rotating Therm —

Jumpetaugh RR

Phanopley —

Photos of Phonograph } Wheeler

Phonautograph } Ele Motor Co